

FORM PTO - 1449

ATTORNEY DOCKET NO.: MTP-024

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## SUPPLEMENTAL

APPLICANTS: Watkins et al.

MAR 20 2003

## INFORMATION DISCLOSURE STATEMENT

SERIAL NO.: 09/709,947

FILING DATE: November 10, 2000

TECH CENTER 1600/2900  
GROUP: 1642

## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AD	5,342,764	30-Aug-94	Johnson et al.	435	252.3	
	AE	5,719,060	17-Feb-98	Hutchens et al.	436	174	
	AF	5,792,664	11-Aug-98	Chait et al.	436	89	
	AG	5,962,242	05-Oct-99	Klug	435	7.93	
	AH	6,197,525	06-Mar-01	Yao et al.	435	4	
	AI	6,225,047	01-May-01	Hutchens et al.	210	656	
	AJ	6,287,521	11-Sep-01	Quay et al.	422	101	
	AK	6,410,692	25-Jun-02	Stevens	530	388.25	

## FOREIGN PATENT DOCUMENTS

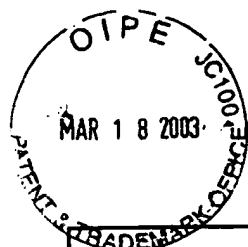
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	BD	196 32 521 A	19-Feb-98	DE					
	BE	WO 99/39204	05-Aug-99	PCT					
	BF	AU 720626	19-Feb-98	AU					
	BG	WO 01/36977 A2	25-May-01	PCT					
	BH	WO 01/36977 A3	25-May-01	PCT					
	BI	WO 01/36470 A2	25-May-01	PCT					
	BJ	WO 01/36470 A3	25-May-01	PCT					

## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CCE	Aleynik et al., "Increased circulating products of lipid peroxidation in patients with alcoholic liver disease," <u>Alcohol Clin. Exp. Res.</u> , 22(1):192-196.(Feb. 1998).
	CCF	Chong et al., "Protein profiles and identification of high performance liquid chromatography isolated proteins of cancer cell lines using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry," <u>Rapid Commun. Mass. Spectrom.</u> , 12(24):1986-1993 (1998).

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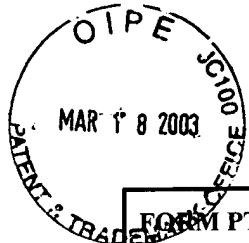
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CCG	Clements et al., "Biochemical characterization of patients and prenatal diagnosis of sialic acid storage disease for three families," <u>J. Inherit. Metab. Dis.</u> , 11(1):30-44 (1988).
	CCH	Cross et al., "The trans-spliceosomal U2 snRNP protein 40K of <i>Trypanosoma brucei</i> : cloning and analysis of functional domains reveals homology to a mammalian snRNP protein," <u>The EMBO Journal</u> , 12(3):1239-1248 (1993).
	CCI	Davies, H., "ProteinChip™ Case Study: Identification of a Novel Ligand," <a href="http://www.ciphergen.com">http://www.ciphergen.com</a> , (June 16, 1999).
	CCJ	"Discovery of Protein Biomarkers and 'Phenomic Fingerprints' Using SELDI ProteinChip™ System," <a href="http://www.ciphergen.com">http://www.ciphergen.com</a> , downloaded January 18, 2000.
	CCK	Fury et al., "Thirteen Anti-Sm Monoclonal Antibodies Immunoprecipitate the Three Cytoplasmic snRNP Core Protein Precursors in Six Distinct Subsets," <u>Journal of Autoimmunity</u> , 12:91-100 (1999).
	CCL	Gottschalk et al., "Identification by mass spectrometry and functional analysis of novel proteins of the yeast [U4/U6·U5] tri-snRNP," <u>The EMBO Journal</u> , 18(16):4535-4548 (1999).
	CCM	Gozani et al., "Evidence that sequence-independent binding of highly conserved U2 snRNP proteins upstream of the branch site is required for assembly of spliceosomal complex A," <u>Genes &amp; Development</u> , 10:233-243 (1996).
	CCN	Habets et al., "Mapping of B Cell Epitopes on Small Nuclear Ribonucleoproteins that React with Human Autoantibodies as well as with Experimentally-Induced Mouse Monoclonal Antibodies," <u>The Journal of Immunology</u> , 143(8):2560-2566 (October 15, 1989).
	CCO	Halliday et al., "Differentiation of human tumors from nonmalignant tissue by natural-abundance <sup>13</sup> C NMR spectroscopy," <u>Magn. Reson. Med.</u> , 7(4):384-411 (1988).
	CCP	Harper et al., "RNA binding specificity of a <i>Drosophila</i> snRNP protein that shares sequence homology with mammalian U1-A and U2-B" proteins," <u>Nucleic Acids Research</u> , 20(14):3645-3650(1992).
	CCQ	Hong et al., "Association of U2 snRNP with the spliceosomal complex E," <u>Nucleic Acid Research</u> , 25(2):354-361 (1997).
	CCR	Jellum et al., "Profiling cells and body fluids - chromatography and two-dimensional electrophoresis as complementary techniques," <u>J. Chromatogr.</u> , 488(1):105-127 (March 17, 1989).
	CCS	Jellum, E., "Multi-Component Analyses of Human Body Fluids and Tissues in Health and Disease Using Capillary Gas Chromatography -Mass Spectrometry and High-Resolution Two-Dimensional Electrophoresis," <u>Journal of Chromatography</u> , 239:29-37 (1982).
	CCT	Jellum et al., "Clinical Applications of Two-Dimensional Electrophoresis," <u>Clin. Chem.</u> , 28(4):876-883 (1982).

EXAMINER	DATE CONSIDERED
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FORM PTO - 1449 <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTORNEY DOCKET NO.: MTP-024 APPLICANTS: <b>Watkins et al.</b> SERIAL NO.: <b>09/709,947</b> FILING DATE: <b>November 10, 2000</b>
RECEIVED MAR 20 2003 TECH CENTER 1500/2900 GROUP: 1642		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CCU	Kramer et al., "Combined Biochemical and Electron Microscopic Analyses Reveal the Architecture of the Mammalian U2 snRNP," <u>The Journal of Cell Biology</u> , 145(7):1355-1368 (June 28, 1999).
	CCV	Laloti et al., "The Gene for Human U2 snRNP Auxiliary Factor Small 35-kDa Subunit ( <i>U2AF1</i> ) Maps to the Progressive Myoclonus Epilepsy (EPM1) Critical Region on Chromosome 21q22.3," <u>Genomics</u> , 33:298-300 (1996).
	CCW	Lamond et al., "Probing the Structure and Function of U2 snRNP with Antisense Oligonucleotides Made of 2'-OMe RNA," <u>Cell</u> , 58:383-390 (July 28, 1989).
	CCX	Leaves et al., "Pyrolysis mass spectrometry in epidemiological and population genetic studies of <i>Haemophilus influenzae</i> ," <u>J. Med. Microbiol.</u> , 46(3):204-207 (1997).
	CCY	Lim et al., "Altered hydroxylation of estrogen in patients with postmenopausal osteopenia," <u>J. Clin. Endocrinol. Metab.</u> , 82(4):1001-1006 (April 1997).
	CCZ	Loo et al., "High sensitivity mass spectrometric methods for obtaining intact molecular weights from gel-separated proteins," <u>Electrophoresis</u> , 20:743-748 (1999).
	CCCA	Lollo et al., "Improved two-dimensional gel electrophoresis representation of serum proteins by using ProtoClear™," <u>Electrophoresis</u> , 20:854-859 (1999).
	CCCB	Ogorzalek Loo et al., "Sensitivity and mass accuracy for proteins analyzed directly from polyacrylamide gels: Implications for proteome mapping," <u>Electrophoresis</u> , 18:382-390 (1997).
	CCCC	Ogorzalek Loo et al., "Mass Spectrometry of Proteins Directly from Polyacrylamide Gels," <u>Anal. Chem.</u> , 68:1910-1917 (1996).
	CCCD	Osin et al., "Experimental pathology and breast cancer genetics: new technologies," <u>Recent Results Cancer Res.</u> , 152:35-48 (1998).
	CCCE	Ostergaard et al., "Proteome profiling of bladder squamous cell carcinomas: identification of markers that define their degree of differentiation," <u>Cancer Res.</u> , 57(18) 4111-4119 (September 15, 1997).
	CCCF	Rohde et al., "Comparison of protein mixtures in aqueous humor by membrane preconcentration - capillary electrophoresis - mass spectrometry," <u>Electrophoresis</u> , 19:2361-2370 (1998).
	CCCG	Schuhmacher et al., "Investigations concerning the potential for using <sup>1</sup> H NMR relaxometry or high-resolution spectroscopy of plasma as a screening test for malignant lung disease," <u>Magn. Reson. Med.</u> , 13(1):103-132 (1990).
	CCCH	Spector et al., "Differences in snRNP Localization Between Transformed and Nontransformed Cells," <u>Molecular Biology of the Cell</u> , 3:555-569 (May 1992).
	CCCI	Thiede et al., "Identification of human myocardial proteins separated by two-dimensional electrophoresis with matrix-assisted laser desorption/ionization mass-spectrometry," <u>Electrophoresis</u> , 17(3):588-599 (1996).
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FORM PTO - 1449

ATTORNEY DOCKET NO.: MTP-024

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APPLICANTS: Watkins et al.

INFORMATION DISCLOSURE STATEMENT

SERIAL NO.: 09/709,947

FILING DATE: November 10, 2000 GROUP: 1642

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OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

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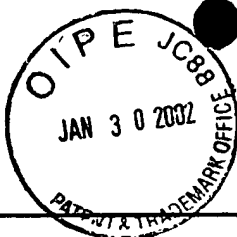
Weekes et al., "Bovine dilated cardiomyopathy: Proteomic analysis of an animal model of human dilated cardiomyopathy," Electrophoresis, 20:898-906 (1999).

CCCK

Xu et al., "Synthetic Lethality of Yeast *s/t* Mutations with U2 Small Nuclear RNA Mutations Suggests Functional Interactions between U2 and U5 snRNPs That Are Important for Both Steps of Pre-mRNA Splicing," Molecular and Cellular Biology, 18(4):2055-2066 (April 1988).

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
amb	AC	5,561,222	10-1-96	Keene et al.	530	350	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
amb	BB	WO 98/42725	01.10.98	PCT	C07H	21/02	20.03.97	N	Y
amb	BC	0 460 607 A2	11.12.91	EP	C12P	21/08	04.06.91	N	Y

OTHER ART, JOURNAL ARTICLES, ETC.

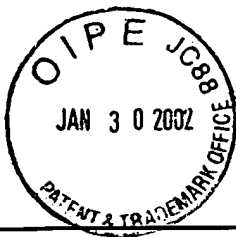
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CP	Bazel et al., "Characterization of Purified Cathepsin D From Malignant Human Breast Tissue", <u>International J. of Oncology</u> , 14(2):315-319 (1999).
amb	CQ	Giuffrida et al., "Isolation and Characterization of Full and Truncated Forms of Human Breast Carcinoma Protein BA46 From Human Milk Fat Globule Membranes", <u>J. of Protein Chemistry</u> , 17(2):143-148 (1998).
	CR	Alfonso, et al., "Two Monoclonal Antibodies Identifying Human Breast Carcinoma Associated Antigens", <u>Biotechnologia Aplicada</u> , 11(1):12-19 (1994).
	CS	Autiero et al., "A 17-kDa CD4-binding Glycoprotein Present in Human Seminal Plasma and in Breast Tumor Cells", <u>Eur. J. Immunol.</u> , 25(5):1461-1464 (1995).
	CT	Alfonso et al., "Monoclonal Antibodies ior camal and ior cama2 Identifying Human Breast Carcinoma Associated Antigens", <u>Immunologia</u> , 13(3):102-104 (1994).

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FEB 04 2002  
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SHEET 1 OF 2

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: MTP-024 APPLICANT(S): Watkins SERIAL NO.: 09/709,947 FILING DATE: November 10, 2000 GROUP: <del>1641</del> 1642	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
ank	CU	Damstrup et al., "Estrogen-Regulated Proteins in Human Breast Cancer: Clinical Value in Advanced Breast Cancer and Correlation with Estrogen Receptor", <u>Recent Advances in Cellular and Molecular Biology</u> , 4:243-251 (1992).	
	CV	Moretti-Rojas et al., "A cDNA for the Estradiol-Regulated 24K Protein: Control of mRNA Levels in MCF-7 Cells", <u>Breast Cancer Research and Treatment</u> , 11:155-163 (1988).	
	CW	Borchert et al., "Molecular Forms of Prostate-Specific Antigen in the Serum of Women with Benign and Malignant Breast Diseases", <u>British J. of Cancer</u> , 76(8):1087-1094 (1997).	
	CX	Chorvath et al., "Monoclonal Antibodies to Two Adhesive Cell Surface Antigens (CD43 and CD59) with Different Distribution on Hematopoietic and Non-Hematopoietic Tumor Cell Lines", <u>Neoplasma</u> , 39(6):325-329 (1992) (Abstract).	
	CY	Slentz-Kesler, et al., "Identification and Characterization of K12 (SECTM1), a Novel Human Gene that Encodes a Golgi-Associated Protein with Transmembrane and Secreted Isoforms", <u>Genomics</u> , 47:327-340 (1998).	
	CZ	Takei et al., "Partial Purification of Immunoreactive Basic Fibroblast Growth Factors From Sera of Patients with Breast Cancer and Investigation of Their Mitogenic Activity Toward BALB/c3T3 Fibroblasts", <u>J. of Clinical Biochemistry and Nutrition</u> , 17(1):19-28 (1994).	
	CCA	Tachibana et al., "NAG-2, a Novel Transmembrane-4 Superfamily (TM4SF) Protein That Complexes with Integrins and Other TM4SF Proteins", <u>J. of Biological Chemistry</u> , 272(46):29181-29189 (1997).	
ank	CCB	Paweletz et al., "A Novel, Proteomic Approach to Monitor Carcinogenic Disease Progression Using Surface Enhance Desorption Ionization Spectroscopy (SELDI) of Laser Capture Microdissection (LCM)-Derived Cells From Cancer Tissue", <u>Proceedings of the American Association for Cancer Research</u> , 40:411, (March 1999) (Abstract).	
	CCC	Paweletz et al., "Rapid Protein Display Profiling of Cancer Progression Directly From Human Tissue Using a Protein Biochip", <u>Drug Development Research</u> , 49(1):34-42 (2000).	
	CCD	International Search Report for International Patent Application PCT/US00/31483.	
EXAMINER <i>amf/ab/cis</i>		DATE CONSIDERED <i>5 May 2003</i>	



SHEET 1 OF 2  
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OCT 16 2001  
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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MTP-024 APPLICANT(S): Watkins SERIAL NO.: 09/709,947 FILING DATE: November 10, 2000 GROUP: 1641
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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>amh</i>	AA	5,876,937	3-2-99	Sillekens	435	6	
<i>amh</i>	AB	6,020,135	2-1-00	Levine et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY in English	ENGLISH LANG (Y/N)
<i>amh</i>	BA	WO 98/07036	02-19-98	PCT	G01N	33/68	08-13-86	<i>body of doc. in German</i>	N

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
<i>amh</i>	CA	Chong, et al., "Rapid Screening of Protein Profiles of Human Breast Cancer Cell Lines Using Non-porous Reversed-phase High Performance Liquid Chromatography Separation with Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectral Analysis", <u>Rapid Communications in Mass Spectrometry</u> , 13:1808-1812 (1999).
	CB	Rasmussen, et al., "Towards a Comprehensive Database of Proteins from the Urine of Patients with Bladder Cancer", <u>The Journal of Urology</u> , 155:2113-2119 (June 1996).
	CC	P.R. Jungblut, et al., "Proteomics in Human Disease: Cancer, Heart and Infectious Diseases", <u>Electrophoresis</u> , 20:2100-2110 (1999).
	CD	Habets, et al., "Analysis of a cDNA Clone Expressing a Human Autoimmune Antigen: Full-length Sequence of the U2 Small Nuclear RNA-associated B" Antigen", <u>Proc. Natl. Acad. Sci., USA</u> , 84:2421-2425 (April 1987).
	CE	Watkins, et al., "Surface Enhanced Laser Desorption-Ionization (SELDI) Mass Spectroscopy in the Discovery of Serum Markers for Breast Cancer", <u>Tumor Biology</u> , 21 (Supplement 1): 35 (September 2000). <i>Abstract only.</i>
	CF	Watkins, et al., "Identification of Serum Nuclear Matrix Protein Markers of Breast Cancer Using Surface Enhanced Laser Desorption-Ionization (SELDI) Mass Spectroscopy", <u>Breast Cancer Research and Treatment</u> , 64 (No. 1): 98 (November 2000). <i>Abstract only.</i>
	CG	Chubb, et al., "Preliminary Study Shows Matritech Identified Breast Cancer Proteins in Blood of all Breast Cancer Patients Tested", <u>Press Release</u> , 2 pgs. (July 1, 1999).

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*5 May 2003*



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OCT 16 2001  
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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
<i>anh</i>	CH	Wilusz, et al., "A Multicomponent Complex Is Required for the AAUAAA-Dependent Cross-Linking of a 64-Kilodalton Protein to Polyadenylation Substrates", <u>Molecular and Cellular Biology</u> , 1244-1248 (March 1990).	
	CI	Takagaki, et al., "A Multisubunit Factor, CstF, is Required for Polyadenylation of Mammalian Pre-mRNAs", <u>Genes and Development</u> , 2112-2120. ( <i>December 1990</i> )	
	CJ	Martincic, et al., "Increase in the 64-kDa Subunit of the Polyadenylation/Cleavage Stimulatory Factor During the G <sub>0</sub> to S Phase Transition", <u>Proc. Natl. Acad. Sci. USA</u> , 95:11095-11100 (September 1998).	
	CK	Wallace, et al., "Two Distinct Forms of the 64,000 M <sub>r</sub> Protein of the Cleavage Stimulation Factor are Expressed in Mouse Male Germ Cells", <u>Proc. Natl. Acad. Sci. USA</u> , 96:6763-6768 (June 1999).	
	CL	Takagaki, et al., "The Human 64-kDa Polyadenylation Factor Contains a Ribonucleoprotein-Type RNA Binding Domain and Unusual Auxiliary Motifs", <u>Proc. Natl. Acad. Sci. USA</u> , 89:1403-1407 (February 1992).	
	CM	Takagaki, et al., "A Polyadenylation Factor Subunit is the Human Homologue of the Drosophila Suppressor of Forked Protein", <u>Nature</u> , 372:471-474 (December 1, 1994).	
	CN	Barbaux, et al., "The Xenopus laevis Homologue of the 64-kDa Subunit of Cleavage Stimulation Factor", <u>Comp. Biochem. Physiol.</u> , 114B(3): 313-315 (1996).	
	CO	Takagaki, et al., "Complex Protein Interactions Within the Human Polyadenylation Machinery Identify a Novel Component", <u>Molecular and Cellular Biology</u> , 20(5): 1515-1525 (March 2000).	
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